High Resolution High Sensitivity HDR Wide Dynamic Dome Camera

INSTRUCTION MANUAL

- ☐ **15-CD453VB**
- ☐ **15-CD453VBC**
- ☐ **15-CD453V**
- ☐ **15-CD453VC**
- ☐ **15-CD453VBI**
- ☐ **15-CD453VBIC**
- ☐ **15-CD453VI**
- ☐ **15-CD453VIC**

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PRECAUTION

Do not open or modify
Do not adjust the camera's internal circuits or power supply modules, as it may cause damage to the unit. For internal set up and repair, please consult our dealer.

Do not put objects inside the unit
Do not put metal objects or flammable substance inside the camera for it may cause damage to the unit. If water or liquid gets inside of the camera please disconnect power immediately and contact with your dealer.

Be careful when handling the unit
Do not drop the camera and avoid it from strong shock or vibration.

Install away from electric or magnetic fields
It may interfere or distort the image when camera is installed close to electric or magnetic fields. Ex: TV, Speaker, and etc.

Avoid from humidity, dust and heat
a. Do not install the camera in smoky, dusty or steamy areas.
b. Do not install the camera close to heat generating devices (for ex: spotlights)

Protect the camera carefully from direct exposure to sunlight, rain, and etc.

Cleaning

Do not touch the CCD directly. If necessary, use a soft cloth moistened with alcohol to wipe off dust.

FEATURES

MODEL:15-CD453VB、15-CD453V、15-CD453VBC、15-CD453VC
15-CD453VBIC、15-CD453VIC、15-CD453VBI、15-CD453VI

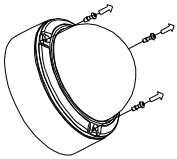
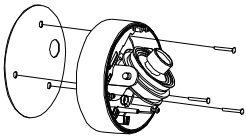
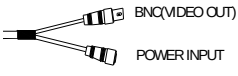
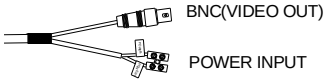
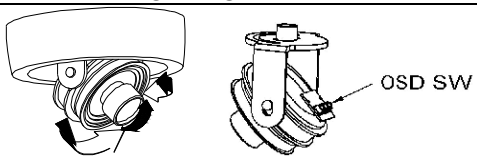
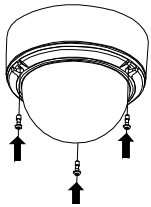
- Super Hi- Res. CCD with Star-Light more than 600TV Lines (D/N)
- HDR Wide Dynamic Video Digital Signal Processor (SOC) IC
- Auto / Manual Electronic SHUTTER speed adjustable
- High Sensitivity, Low Smear, excellent anti-blooming
- Japan Original Vari-focal Lens
- On Screen Display (OSD) set-up Menu
- Motion Detection, Privacy Marking, H / V Mirror, Freeze, Negative, Cross Line
- 2X Digital Zoom with Manual Pan / Tilt
- Back Light Compensation adjustable
- S/N Ratio with Auto 3D-DNR
- Challenging High Lighting Condition
- 0 Lux @ 24 IR LEDs, range up to 30M (15-CD453VBI / 15-CD453VBIC / 15-CD453VI / 15-CD453VIC)
- Special Shielding to Eliminate IR Reflections (15-CD453VBI / 15-CD453VBIC)
- IR Cut Removable (15-CD453VBC / 15-CD453VBIC / 15-CD453VIC 15-CD453VC)
- Built-in Video/Power Surge Protection
- Vandal case with Water Resistance(15-CD453VB、15-CD453VBI、15-CD453VBIC、15-CD453VBC)

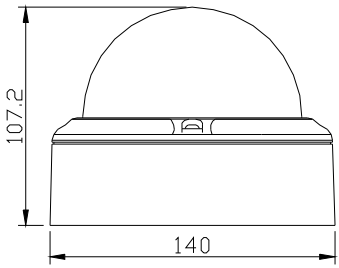
SPECIFICATIONS

Model No.	15-CD453VB 15-CD453V	15-CD453VBI 15-CD453VI	15-CD453VBIC 15-CD453VIC	15-CD453VBC 15-CD453VC
Image Pick-up Device	1/3“ CCD Image Sensor (HI- Res.)			
Total Picture Elements	NTSC: 811 x 507, PAL: 765 x 595			
Effective Picture Elements	NTSC: 771 x 492, PAL: 753 x 582			
Horizontal Resolution	560TV lines (Color) / 600 TV lines (D/N)			
Minimum Illumination	0.01 Lux	0 Lux IR ON		0.001 Lux
Auto Iris Lens	3.7~12mm			
IR CUT	X		YES	
IR LEDs	X	24 x LEDs		X
Rotation	3 Axis	2 Axis	2 Axis	3 Axis

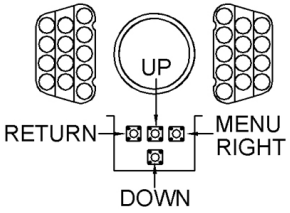
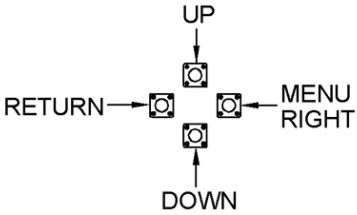
Digital Zoom	2X, Manual, PAN / TILT		
S/N Ratio WITH Auto 3D-DNR	More than 56 dB		
Wide Dynamic Range	48dB		
Gamma Characteristic	0.45 / 1.0		
Auto/Manual Electronic Shutter	NTSC: 1/60s~1/120,000s, PAL: 1/50s~1/120,000s		
Digital Slow Shutter	2X~64X		
Flickerless Mode	YES		
Mirror Function	HORIZONTAL / VERTICAL / ROTATION		
Image Function	FREEZE、NEGATIVE、CROSS LINE		
Auto Gain Control	ON/OFF (6 ~ 24dB adjustable)		
White Balance	Auto (ATW, AWB, FIXED, Manual)/ 3200 ~ 10000 ºK		
Back Light Compensation	ON/OFF (48 Area adjustable)		
Motion Detection	YES		
Video Output	1 Vp-p / 75 Ohms		
Day & Night	Color	Auto (Level adjustable), Color, B/W	
Privacy Masking	ON/OFF (4 Area adjustable)		
Synchronous System	EXT / INT.SYNC. / (LINE LOCK OPTION)		
Power Supply	AC24/DC12 V	DC12V	AC24/DC12 V
Power Consumption	2W	5W	2W
Operating Temperature	-10℃~65℃ (14℉~149℉)		
Dimension	Φ136 (D) X 100 (H) mm		
Packing / Weight	1 CTN：12pcs BOX：18(W)X14.7(H)X11.5(D)mm		

INSTALLATION

	**Step1:** Remove the 3 screws from the domes housing.
	**Step2:** Attach the base of the housing to the wall/ceiling by fixing the screws into the drilled holes.
 SINGLE POWER  DUAL POWER	**Step3:** Connect power and video signal (see left) Ensure the polarity is correct when connecting power to the terminal block. +/-
	**Sept 4:** Adjust the cameras focus, angle and functions.
	**Step 5:** Attach the domes cover and insert the screws.

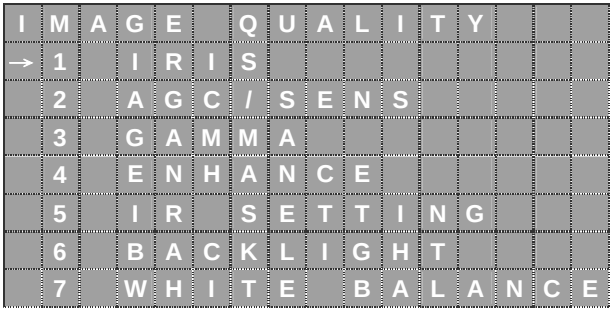


OSD Key explains

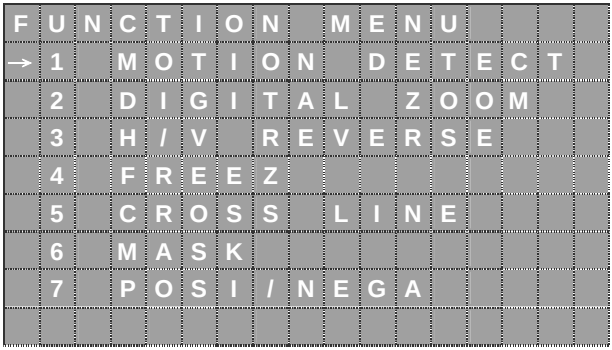
15-CD453VBI、15-CD453VBIC	
15-CD453VB、15-CD453VBC	

OSD Menu Operation Instruction

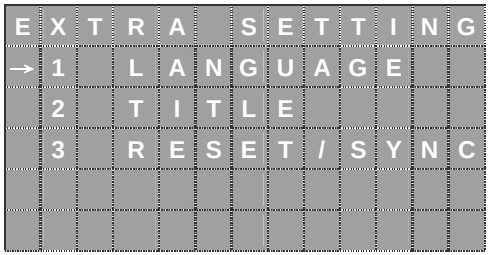
SETUP MANU (1/3)



SETUP MANU (2/3)

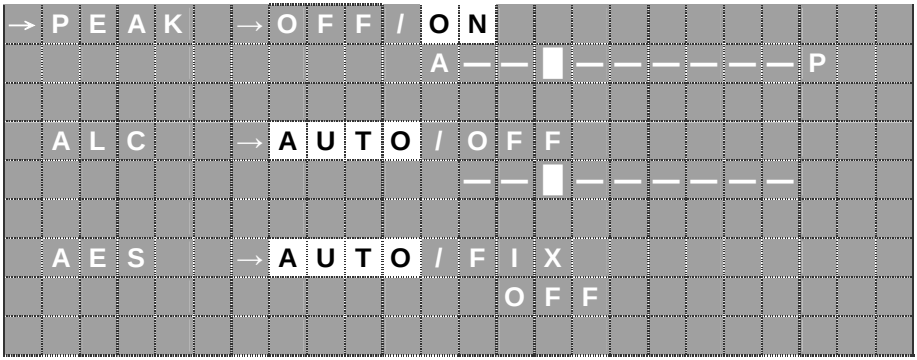


SETUP MANU (3/3)



1. To display OSD MENU on the screen, press the MENU key for 2 seconds.
2. To turn of OSD MENU on the screen, press the RETURN key.
3. Press UP, DOWN and ENTER keys to move and make the decision.

IRIS



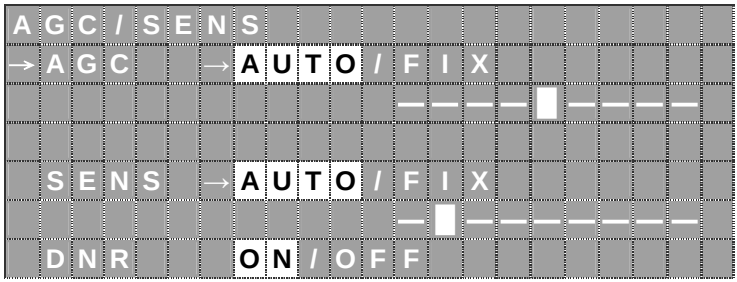
AES SETTING

1. AUTO: To select MANUAL IRIS lens.

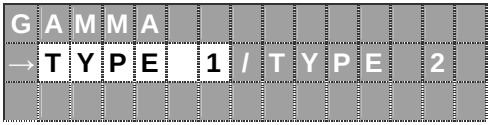
2. FIX: To select AUTO IRIS lens.

3. If want to catch the speeding moving object. change the shutter speed as 1/250 , 1/300, 1/350….. till clear picture appears.

AGC/SENS

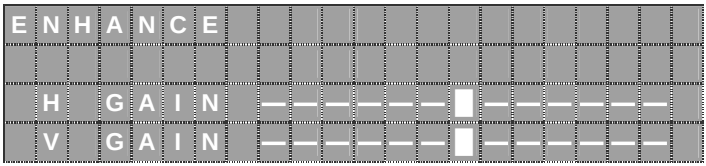


GAMMA



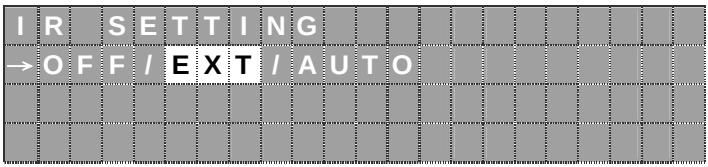
TYPE 1: GAMMA= 0.45
TYPE 2: GAMMA= 1.00

ENHANCE



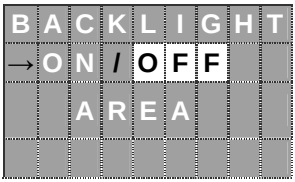
When the picture is too sharp to get the clear video output, adjust H Gain / V Gain to acquire the best image.

IR SETTING

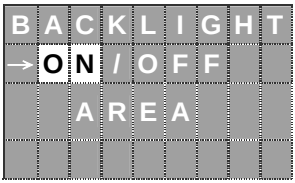


1. AUTO **—** Color in the daytime and B/W in the nighttime (Low Lux situation) (15-CD453VB、15-CD453VBC recommended)
2. EXT**—** ICR filter controlled by external Infrared signal.(15-CD453VBI、15-CD453VBIC recommended)
3. OFF**—** Color image all the time.

BACK LIGHT



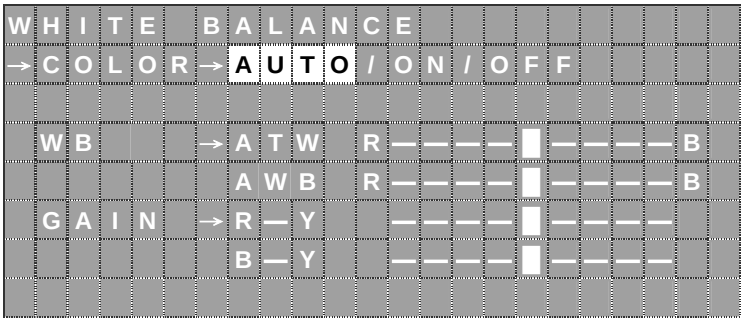
Backlight function is not working.



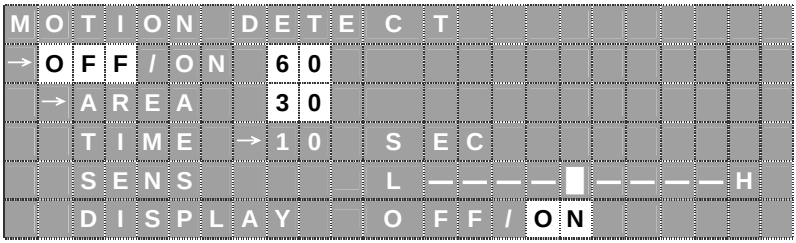
48 backlight areas can be selected and shown by gray marking.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48

WHITE BALANCE



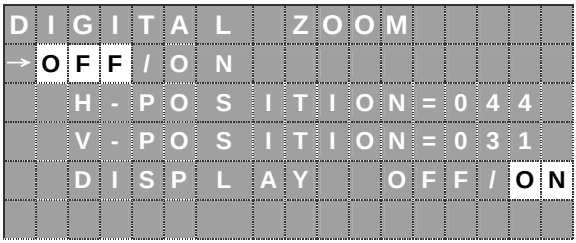
MOTION DETECT



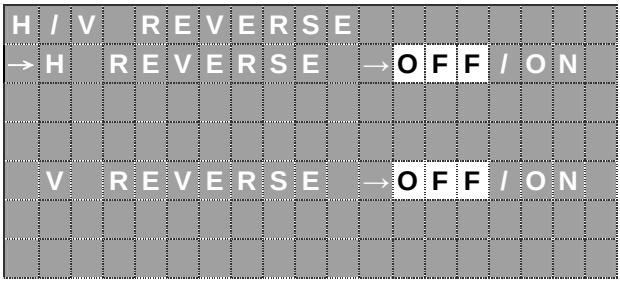
48 motion detection areas can be selected and shown by gray marking.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48

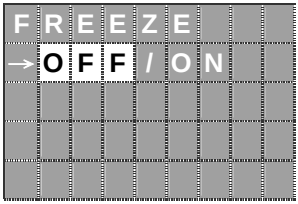
DIGITAL ZOOM



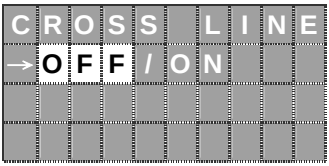
H/V REVERSE



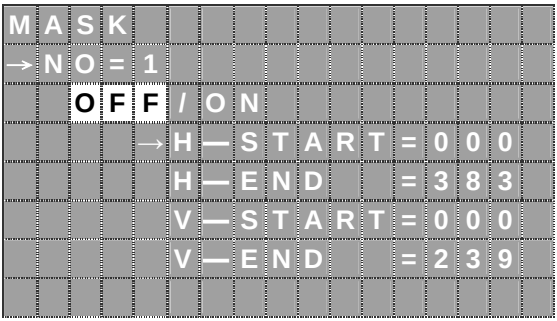
FREEZE



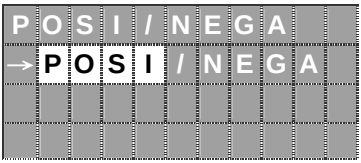
CROSS LINE



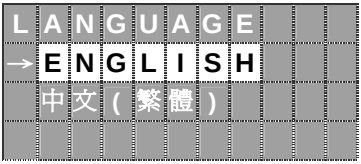
MASK



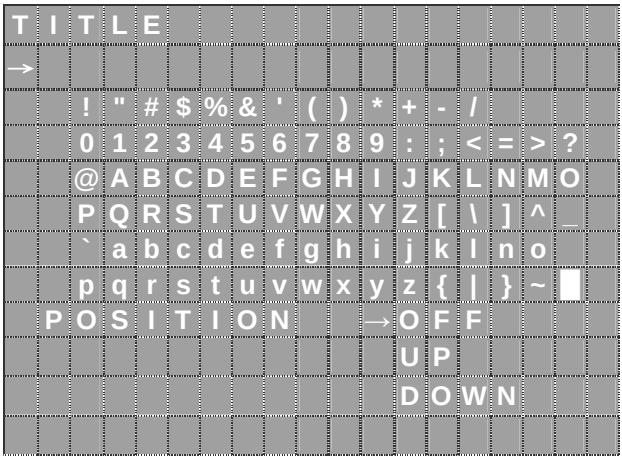
POSI/NEGA



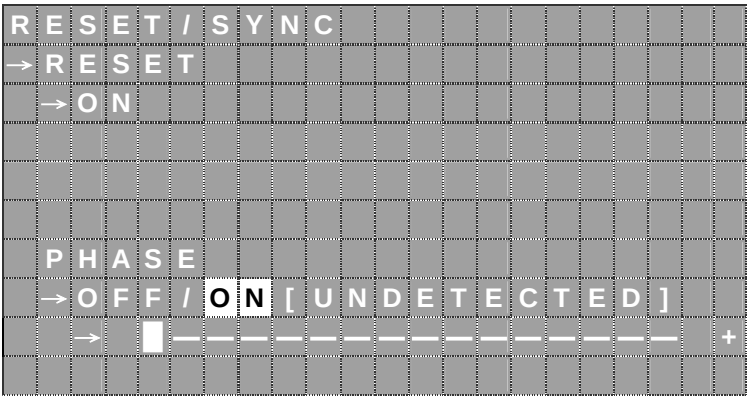
LANGUAGE



TITLE



RESET/SYNC



[UNDETECTED]: No Line-Lock Signal Input.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATIONS IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED. INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

VER:20090416